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CENTRAL INTELLIGENCE AGENCY
PHOTOGRAPHIC INTELLIGENCE DIVISION
PHOTOGRAPHIC INTELLIGENCE REPORT

CONSTRUCTION OF SOVIET SINGLE SILO ICBM SITES,
USSR

CIA/PIR-1020/65



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INTRODUCTION

Analysis of the construction timing for Type III-C and III-D single silo ICBM launch sites has been accomplished throughout the past year upon the receipt of each [] mission. This analysis has now been completed for [] and this report contains a synopsis of the significant information derived from this photography. Many details not previously observed were detected [] and these have increased the understanding of construction timing and techniques for both types of silos.

Type III-C Silo

The type III-C silos at Launch Sites A-3, B-2 and I at the Tyuratam Missile Test Center have been completed in a time span of 13 to 16½ months. These three sites are the farthest along in construction of any of the Type III-C sites and are the silos upon which the original estimate of construction timing of the deployed sites was based. Examination of this latest photography reveals that the construction timing of the deployed Type III-C single silos will closely parallel that of the silos at Tyuratam Sites K-1 and 2 and G-7 and will take significantly longer to complete than the silos at Tyuratam A-3, B-2 and I. It is now estimated that the construction of these sites will take a minimum of 18 months and a probable maximum of 24 months.

Excellent stereo photography of the silo at Launch Site B-2 at Tyuratam from [] reveals no evidence of exhaust ports.* The silo cover is in the open position and measures approximately [] It appears identical in design, size and direction of movement to the silo doors at Tyuratam Launch Site D-2, a Type III-A silo launch site. The silo aperture when complete also appears identical to that observed at completed Type III-A sites. []

Probable silo liners 110 feet long, are observed at several sites at the Imeni Gastello Complex. When identified they have been located on the rectangular hardstand adjacent to the silo. Similar cylindrical objects were seen in the same relative position to the silos at Type III-A launch sites when they were under construction.

*See CIA/PIR-1021/65. Probable Presence of Exhaust Ports at Type III-A and Type III-C ICBM Launch Sites, USSR.

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The roads connecting the launch sites at the Kartaly and Dombarovskiy Type III-C complexes are being improved. The presence of readily identifiable roads within the complex will make it highly unlikely that any Type III-C complexes or launch sites will reach completion undetected.

Although the Type III-C silos of Tyuratam are being constructed in groups of three, there is no firm photographic evidence that this will be the case at the complexes deployed in the field. In no case has construction started on more than one "L" shaped interferometer at any of the deployed complexes. Since as many as six sites are in similar stages of construction at some complexes it might be expected that another electronics facility would have been started by this time if it is to be finished concurrent with the completion of the silos. It now appears that construction of the "L" shaped interferometer will take about 14 months.

Type III-D Silos

At Tyuratam, the construction of the 10 Type III-D silos which make up Launch Group L is running an estimated 5 months ahead of the time required to construct the deployed sites of this type.

It appears that the covers observed over some of the Type III-D silos during the past winter were environmental shelters. They have been removed in some instances and in no case can a final silo cover be definitely identified at any deployed site of this type.

Three sites at the Tatishchevo complex, estimated to be complete on Mission [] show no appreciable change. However the hardstands adjacent to the silo do not appear to be surfaced.

Summary of Construction Status

CIA intelligence analysts and photo interpreters have developed the following stages of construction in order to more precisely analyze the construction of single silo sites.

<u>Stage</u>	<u>Description</u>
I	Clearing and grading
II	Open cut excavation
III	Coring visible
IVa	Ramps/forms under construction for silo
IVb	Clearing and excavation for guidance and control
V	Silo, per se, finished (to surface level)
VIa	Backfill silo
VIb	Control and guidance under construction

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<u>Stage</u>	<u>Description</u>
VII	Backfilling complete around silo and road pattern well defined. Probable environmental cover often visible over silo.
VIII	Control and guidance finished
IX	Road pattern complete. Installation of silo door and surfacing of road.
X	Site complete

The 50 Type III-C and the 91 III-D deployed sites presently classified as confirmed or probable by CIA/IAD are estimated to be in the following stages of construction as of the end of the second quarter, 1965.

	<u>Construction Stage</u>	<u>Number of Sites</u>
Type III-C	Stage 1	0
	Stage 2	2
	Stage 3	7
	Stage 4	25
	Stage 5	2
	Stage 6	14
	Total	50
Type III-D	Stage 5	1
	Stage 6	27
	Stage 7	17
	Stage 8	0
	Stage 9	31
	Stage 10	15
Total	91	

REFERENCES

PHOTOGRAPHY

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REQUIREMENT

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